

### ABSTRACT OF THE INVENTION

A method and a system is provided for facilitating communication throughout a master/slave network. The network topology includes a transmission cable being operably connected between the network modules. A master module includes a master terminating resistor operably connected to the transmission cable. A slave module includes a slave terminating resistor and a slave switch. The slave terminating resistor is operably connected to the slave switch. A load resistor is operably connected to the transmission cable. The slave switch is operably responsive to the load resistor to generate a terminate enable. The slave switch inserts the slave terminating resistor onto the transmission cable in response to the terminate enable.